

INTERNATIONAL SEARCH REPORT

Inter Application No

PCT/DK 03/00519

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68 C12N15/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01 77315 A (NOVOZYMES AS) 18 October 2001 (2001-10-18) cited in the application see especially page 2, line 5 - line 32 ---	1-36
Y	DEAN FRANK B ET AL: "Rapid amplification of plasmid and phage DNA using Phi29 DNA polymerase and multiply-primed rolling circle amplification" GENOME RESEARCH, vol. 11, no. 6, June 2001 (2001-06), pages 1095-1099, XP002261245 ISSN: 1088-9051 cited in the application page 1095 left column paragraph 1 - right column paragraph 1, page 1098 left column paragraph 1, page 1099 left column line 4 - line 5, abstract --- -/--	1-36



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

12 November 2003

Date of mailing of the international search report

05. 12. 2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/00519

C. (Continuation) - DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00 15779 A (UNIV YALE) 23 March 2000 (2000-03-23) page 1, line 4 - line 27 page 3, line 16 - line 19 page 5, line 10 - line 14 page 6, line 20 - line 24 page 14, line 32 - page 15, line 10 ---	1-36
A	US 5 648 245 A (FIRE ANDREW ET AL) 15 July 1997 (1997-07-15) abstract column 9, line 62 - column 10, line 8 column 11, line 5 - line 14 ---	1-36
A	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US, 15 February 1998 (1998-02-15) CHEN ZHIDONG ET AL: "Amplification of closed circular DNA in vitro" Database accession no. PREV199800180059 XP002261246 abstract & NUCLEIC ACIDS RESEARCH, vol. 26, no. 4, 15 February 1998 (1998-02-15), pages 1126-1127, ISSN: 0305-1048 -----	1-36

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK 03/00519

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely: _____
2. ☒ Claims Nos.: 37-44
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 37-44

Present claims 37-44 relate to an extremely large number of possible polynucleotides, expression systems, host cells and processes. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is not to be found, however, for any of the polynucleotides, expression systems, host cells and processes claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Additionally, previously known polynucleotides, expression systems, host cells and processes may be included in the scope of the present claims.

Consequently, no search has been carried out for present claims 37-44. A search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts related to the method described in present claims 1-36.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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Inter Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0177315	A	18-10-2001	
		AU 4409101 A	23-10-2001
		CA 2402195 A1	18-10-2001
		CN 1418250 T	14-05-2003
		WO 0177315 A1	18-10-2001
		EP 1276857 A1	22-01-2003
		JP 2003530106 T	14-10-2003
		NO 20024798 A	06-12-2002
		US 2002076706 A1	20-06-2002
WO 0015779	A	23-03-2000	
		AU 5925099 A	03-04-2000
		CA 2342838 A1	23-03-2000
		EP 1114184 A2	11-07-2001
		JP 2002525049 T	13-08-2002
		WO 0015779 A2	23-03-2000
		US 6287824 B1	11-09-2001
		US 2002048761 A1	25-04-2002
US 5648245	A	15-07-1997	NONE